



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Ramesh B. Poola et al.

Confirmation No.: 5419

Application No.: 10/774,296

Filing Date: February 2, 2004

For: LARGE-BORE, MEDIUM-SPEED DIESEL
ENGINE HAVING A PISTON CROWN BOWL
WITH ACUTE RE-ENTRANT ANGLE

Art Unit: 3747

Examiner Name: McMahon, Marguerite J.

Attorney Docket: 0372-0083

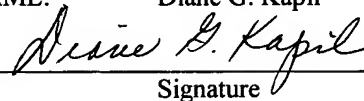
Customer No.: 26568

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22323-1450.

DATE: November 23, 2005

NAME: Diane G. Kapil


Signature

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

TRANSMITTAL OF REVOCATION OF POWER OF ATTORNEY
AND APPOINTMENT OF NEW POWER OF ATTORNEY

Enclosed is a revocation of power of attorney and appointment of new power of attorney to be filed in the above-identified application. Statement Under 37 CFR 3.73(b) and a copy of a Patent Assignment in the chain of title are also submitted herewith.

Respectfully submitted,



Panasarn Aim Jirut
Registration No. 51,849

Cook, Alex, McFarron, Manzo, Cummings
& Mehler, Ltd.
200 W. Adams Street – Suite 2850
Chicago, IL 60606
(312) 236-8500
November 23, 2005



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

**REVOCATION OF POWER OF ATTORNEY AND
APPOINTMENT OF NEW POWER OF ATTORNEY**

I hereby revoke all previous powers of attorney given in the patents and patent applications listed in the attached Schedule A of the Patent Assignment submitted herewith.

I hereby appoint the practitioners associated with the Customer Number 26568, my attorneys, with full power of substitution and revocation, to prosecute and to transact all business in the Patent and Trademark Office in connection with the patents and patent applications listed in the attached Schedule A of the Patent Assignment submitted herewith.

Please change the correspondence address for the patents and patent applications listed in Schedule A of the Patent Assignment submitted herewith to the address associated with Customer Number 26568.

Electro-Motive Diesel, Inc. is the assignee of record of the entire interest in the patents and patent applications listed in the attached Schedule A of the Patent Assignment submitted herewith. Statement under 37 CFR 3.73(b) is attached. The undersigned whose title appears below is authorized to act on behalf of the assignee.

Date: 18 April 2005

Thomas W. Rissman
Vice President and General Counsel
Electro-Motive Diesel, Inc.
(312) 266-2444

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

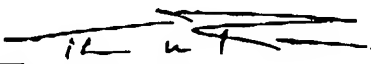
Dear Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Electro-Motive Diesel, Inc., states that it is the assignee of the entire right, title and interest in the patents and patent applications identified in Schedule A of the Patent Assignment attached hereto.

The undersigned is authorized to act on behalf of the assignee.

Date: 18 April 2005



Thomas W. Rissman
Vice President and General Counsel
Electro-Motive Diesel, Inc.
(312) 266-2444

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment") is made as of this 4th day of April, 2005, by and between GENERAL MOTORS CORPORATION a Delaware corporation ("Assignor"), and ELECTRO-MOTIVE DIESEL, INC., a Delaware corporation ("Assignee").

WHEREAS, Assignor and Assignee are party to a Purchase and Sale Agreement, dated as of January 11, 2005, as amended (the "Agreement"), pursuant to which Assignor has agreed to transfer and Assignee has agreed to acquire certain Transferred Assets (as defined in the Agreement) including, without limitation, the United States patent registrations, pending patent applications and unpatented inventions set forth on Schedule A attached hereto and the foreign patent registrations and pending patent applications set forth on Schedule B attached hereto (collectively, the "Patents"); and

WHEREAS, Assignor wishes to transfer to Assignee, and Assignee wishes to acquire from Assignor, all of Assignor's right, title and interest in, to and under the Patents;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, conveys and transfers to Assignee all of Assignor's right, title and interest in, to and under the Patents, both U.S. and foreign, and in and to the underlying inventions (including any continuations, continuations-in-part, divisions, renewals, substitutes, reissues, reexaminations or extensions thereof or any legal equivalent thereof for the full term or terms for which the same may be granted), and in and to all income, royalties, damages and payments now or hereafter due or payable with respect thereto, and in and to all causes of action, either at law or in equity, and the right to sue, counterclaim, and recover for past, present or future infringement of the rights assigned herein. Assignor also assigns to said Assignee, its successors, legal representatives and assigns the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the patent offices or agencies of all foreign countries, to record Assignee as assignee and owner of any and all of Assignor's rights in, to and under the Patents and to issue to Assignee any and all patents on said inventions or resulting from said patent applications or any continuations, continuations-in-part or divisions thereof, or resulting from any renewals, substitutions, reissues, reexaminations or extensions of said patents, for the full term or terms for which the same may be granted.

This Assignment may be executed in any number of counterparts, each of which shall be deemed an original, and may be executed and delivered by facsimile, and all of such counterparts and facsimiles together shall constitute a single instrument.

[Signature page follows]

IN TESTIMONY WHEREOF, the parties hereto have caused this Assignment to be executed and delivered as of the date first above written.

Assignor:

GENERAL MOTORS CORPORATION

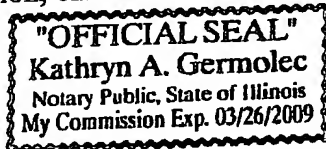
By: A. T. L.

Name: Anne T. Larin

Title: Attorney-in-Fact for Walter G. Borst,
Treasurer

STATE OF Illinois)
COUNTY OF Cook) SS.

The foregoing assignment was acknowledged before me on this 4th day of April, 2005, by Anne T. Larin, a Corporation, on behalf of the corporation.



Kathryn A. Germolec
NOTARY PUBLIC

My Commission Expires: 3/26/2009

Assignee:

ELECTRO-MOTIVE DIESEL, INC.

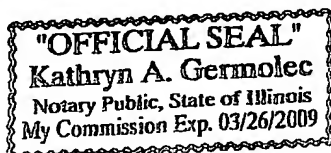
By: T. W. R.

Name: Thomas W. Rissman

Title: VP and General Counsel

STATE OF Illinois)
COUNTY OF Cook) SS.

The foregoing assignment was acknowledged before me on this 4th day of April, 2005, by Thomas W. Rissman, a Corporation, on behalf of the corporation.



Kathryn A. Germolec
NOTARY PUBLIC

My Commission Expires: 3/26/2009

Schedule A
U.S. Patents and Patent Applications

ACTIVE U.S. SERIAL NUMBERS			
Filing Number	Filing Date	Invention No.	Official title
09/911632	25-Jul-01	GP-300922	PARTICULATE GUIDE
10/128201	23-Apr-02	GP-300925	ENGINE CYLINDER POWER MEASURING AND BALANCE METHOD
10/166885	11-Jun-02	GP-301232	ANTI-BOUNCE NEEDLE VALVE FOR A FUEL INJECTOR
10/172806	14-Jun-02	GP-302455	ARRANGEMENT OF RADIAL BOGIE
10/193555	11-Jul-02	GP-301312	ELECTRONICALLY CONTROLLED LATE CYCLE AIR INJECTION TO ACHIEVE SIMULTANEOUS REDUCTION OF NOX AND PARTICULATES EMISSIONS FROM A DIESEL ENGINE
10/218716	14-Aug-02	GP-301313	HYBRID FUEL INJECTION SYSTEM
10/360376	6-Feb-03	GP-301573	TECHNIQUE FOR COMPUTING A MEASURE ON AN ULTRASONIC SIGNAL HAVING APPLICATION TO IDENTIFY VALVE DEFECTS IN OPERATING ENGINES
10/409485	8-Apr-03	GP-302308	DIESEL INJECTION SYSTEM WITH DUAL FLOW FUEL LINE
10/409514	8-Apr-03	GP-302493	TURBOCHARGER ROTOR
10/423313	25-Apr-03	GP-302494	DIESEL ENGINE WATER PUMP WITH THRUST BEARING PRELOAD
10/423319	25-Apr-03	GP-302496	DIESEL ENGINE WATER PUMP WITH IMPROVED WATER SEAL
10/423361	25-Apr-03	GP-302495	DIESEL ENGINE WATER PUMP WITH IMPROVED OIL CONTROL
10/440049	16-May-03	GP-302022	TRACTION MOTOR FAULT DETECTION SYSTEM
10/476133	25-Oct-03	GP-301366	LAYOVER HEATING SYSTEM FOR A LOCOMOTIVE
10/476134	25-Oct-03	GP-301406	LOW EMISSION FUEL EFFICIENT DIESEL LOCOMOTIVE ENGINE INCLUDING A PISTON HAVING A TOROIDAL SURFACE
10/626510	24-Jul-03	GP-302991	COOLANT PUMP CAVITATION SUPPRESSOR
10/656976	5-Sep-03	GP-302524	METHOD AND INTAKE CAM FOR RETAINING EXHAUST RESIDUALS FOR EMISSIONS REDUCTION IN A DIESEL ENGINE
10/673032	26-Sep-03	GP-303049	ENGINE EMISSION CONTROL SYSTEM AND METHOD
10/727351	3-Dec-03	GP-302162	EMISSION REDUCTION KIT FOR EMD DIESEL ENGINES
10/752734	7-Jan-04	GP-302753	LOCATION-SENSITIVE ENGINE EMISSION CONTROL SYSTEM AND METHOD
10/762396	22-Jan-04	GP-303942	LOCOMOTIVE DIESEL ENGINE TURBOCHARGER AND TURBINE STAGE CONSTRUCTED WITH TURBINE BLADE VIBRATION SUPPRESSION METHODOLOGY
10/762397	22-Jan-04	GP-302752	CENTRIFUGAL COMPRESSOR WITH CHANNEL RING DEFINED INLET RECIRCULATION CHANNEL
10/762590	21-Jan-04	GP-301230	METHOD FOR ENGINE CONDITION CONTROL WITH TURBOCOMPRESSOR CONTROLLABLE BYPASS
10/774296	6-Feb-04	GP-304476	LARGE-BORE, MEDIUM-SPEED DIESEL ENGINE HAVING PISTON CROWN BOWL WITH ACUTE RE-ENTRANT ANGLE
10/787420	26-Feb-04	GP-303364	PORTED ENGINE CYLINDER LINER WITH SELECTIVELY LASER-HARDENED AND INDUCTION-HARDENED BORE
10/912018	5-Aug-04	GP-302524	METHOD AND INTAKE CAM FOR RETAINING EXHAUST RESIDUALS FOR EMISSIONS REDUCTION IN A DIESEL

ACTIVE U.S. SERIAL NUMBERS			
Filing Number	Filing Date	Invention No.	Official title
			ENGINE
10/914815	10-Aug-04	GP-304335	LOCOMOTIVE SECURITY SYSTEM AND METHOD
10/914816	10-Aug-04	GP-303603	ENGINE WITH OPTIMIZED ENGINE CHARGE AIR-COOLING SYSTEM
10/922766	20-Aug-04	GP-304336	COMBINED AFTERCOOLER SYSTEM WITH SHARED FANS
10/956645	1-Oct-04	GP-303604	ENGINE WITH CHARGE AIR-COOLING SYSTEM WITH WATER FUMIGATION
60/547007	23-Feb-04	GP-304834	HIGH EFFICIENCY SEMI-ARTICULATED RAILWAY POWER BOGIE
60/548952	1-Mar-04	GP-304877	OPTIMIZED LOW EMISSION 701 INTERNAL COMBUSTION ENGINE
60/550114	4-Mar-04	GP-303732	CYLINDER HEAD WITH IMPROVED HEAT TRANSFER AND VALVE SEAT COOLING
60/550835	5-Mar-04	GP-304833	CHARGE AIR COOLER DESIGNED FOR TIER 2 LOCOMOTIVE DIESEL ENGINE
60/551569	9-Mar-04	GP-304877	OPTIMIZED LOW EMISSION TWO-STROKE INTERNAL COMBUSTION DIESEL ENGINE
60/577966	8-Jun-04	GP-305391	DIESEL-ELECTRIC LOCOMOTIVE ENGINE WASTE HEAT RECOVERY SYSTEM
60/613774	28-Sep-04	GP-305891	FUEL INJECTOR WITH VOP LOSS-RESISTANT VALVE SPRING FOR EMISSIONS-COMPLIANT ENGINE APPLICATIONS
		GP-304834	HIGH EFFICIENCY SEMI-ARTICULATED RAILWAY POWER BOGIE
		GP-305391	DIESEL-ELECTRIC LOCOMOTIVE ENGINE WASTE HEAT RECOVERY SYSTEM
		GP-304877	OPTIMIZED LOW EMISSION TWO-STROKE INTERNAL COMBUSTION ENGINE
		GP-304833	CHARGE AIR COOLER DESIGNED FOR TIER 2 LOCOMOTIVE DIESEL ENGINE
		GP-303732	CYLINDER HEAD WITH IMPROVED HEAT TRANSFER AND VALVE SEAT COOLING

ACTIVE U.S. PATENTS				
Grant Number	Grant Date	Invention No.	Expiration Date	Official title
4603865	5-Aug-86	D-9150	25-Feb-05	DRIVE MOTOR GEAR LUBRICANT SEAL FOR LOCOMOTIVES AND THE LIKE
4608619	26-Aug-86	D-9333	18-Mar-05	GROUND FAULT VOLTAGE LIMITING FOR A LOCOMOTIVE ELECTRIC TRACTION MOTOR
4609862	2-Sep-86	D-9092	9-Sep-05	TWIN WINDING THREE-PHASE ALTERNATOR WITH ZERO SLOT COUPLING
4616150	7-Oct-86	D-8695	28-Jan-05	INTERPOLE ASSEMBLY FOR A DC MACHINE
4628824	16-Dec-86	D-8512	25-Feb-05	SELF STEERING RAILWAY TRUCK
4679506	14-Jul-87	D-9511	21-Nov-05	RAILWAY TRUCK WITH IMPROVED STEERING LINKAGE, DETACHABLE SUSPENSION AND TRACTION

ACTIVE U.S. PATENTS				
Grant Number	Grant Date	Invention No.	Expiration Date	Official title
				MOTOR MOUNTED BRAKE
4679507	14-Jul-87	D-9514	2-Dec-05	THREE-AXLE RAILWAY TRUCK STEERING LINKAGE
4719818	19-Jan-88	F-489	28-Aug-06	TURBOCHARGER PLANETARY DRIVE
4762103	9-Aug-88	F-491	13-Nov-07	ENGINE WITH SEALING HEAD SEAT RING
4765250	23-Aug-88	F-1155	3-Aug-07	LOCOMOTIVE AND MOTORIZED SELF-STEERING RADIAL TRUCK THEREFOR
4815935	28-Mar-89	F-524	29-Apr-07	CENTRIFUGAL COMPRESSOR WITH AERODYNAMICALLY VARIABLE GEOMETRY DIFFUSER
4841873	27-Jun-89	F-103	3-Feb-07	RAILWAY LOCOMOTIVE AND STABILIZED SELF STEERING TRUCK THEREFOR
5071301	10-Dec-91	G-6616	28-Feb-11	MODIFIED ROLLED THREAD FORM FOR STUDS
5111785	12-May-92	G-5005	11-Jul-11	ENGINE PROTECTOR WITH NON-OVERRIDE RESET
5127085	30-Jun-92	G-5555	1-Apr-11	RIDE-THROUGH PROTECTION CIRCUIT FOR A VOLTAGE SOURCE INVERTER TRACTION MOTOR DRIVE
5163816	17-Nov-92	G-4322	12-Jul-11	WHEEL LOCK, CENTERING AND DRIVE MEANS AND TURBOCHARGER IMPELLER COMBINATION
5169242	8-Dec-92	G-4204	27-Nov-10	TURBOCHARGER ASSEMBLY AND STABILIZING JOURNAL BEARING THEREFOR
5207121	4-May-93	G-3362	13-Feb-12	GEAR CASE FOR LOCOMOTIVE DRIVE SYSTEM
5220847	22-Jun-93	G-1954	24-Feb-12	MODIFIED TRACTION MOTOR DRIVE WITH HELICAL GEARS AND GEAR INDEXING METHOD THEREFOR
5251724	12-Oct-93	G-9764	16-Mar-12	RAIL LUBRICATION APPLICATION SYSTEM
5392741	28-Feb-95	H-171029	17-Dec-13	LOCOMOTIVE ENGINE COOLING SYSTEM
5398791	21-Mar-95	G-6274	14-Mar-14	METHOD FOR CROWN PLATING A CAMPLATE AND A METAL-PLATED CAMPLATE FORMED THEREBY
5424948	13-Jun-95	G-10761	10-Nov-13	LOCOMOTIVE TRACTION CONTROL SYSTEM USING FUZZY LOGIC
5425338	20-Jun-95	H-168568	28-Mar-14	RAILWAY LOCOMOTIVE DIESEL ENGINE SPEED/LOAD CONTROL DURING AIR STARVATION
5426567	20-Jun-95	G-11444	15-Oct-13	ELECTRONIC MODULE PACKAGE AND MOUNTING HAVING DIAGONALLY DISPOSED GUIDE PINS AND THREADED RODS
5536144	16-Jul-96	H-187352	13-Oct-14	TURBOCHARGER TURBINE WHEEL

ACTIVE U.S. PATENTS				
Grant Number	Grant Date	Invention No.	Expiration Date	Official title
				AND SHAFT ASSEMBLY
5567056	22-Oct-96	H-187748	29-Sep-14	TURBOCHARGER DRIVE AND PLANET BEARING THEREFOR
5598705	4-Feb-97	H-194245	12-May-15	TURBOCHARGED ENGINE COOLING APPARATUS
5668428	16-Sep-97	H-169580	22-Dec-15	ELECTRIC MOTOR COMMUTATOR
5775228	7-Jul-98	H-197069	14-Apr-17	LOCOMOTIVE ADHESION ENHANCING SLIPPING DISCS
5775817	7-Jul-98	H-196482	4-Nov-16	FRACTURE PROCESS WITH BORE DISTORTION CONTROLS
5791256	11-Aug-98	H-199578	21-Feb-17	AXLE SPRUNG MOTOR
5894825	20-Apr-99	H-200894	19-Feb-18	ENGINE LUBRICATION SYSTEM
5906182	25-May-99	H-201989	25-Mar-17	ENGINE PISTON
5910099	8-Jun-99	H-201376	28-Feb-17	TURBOCHARGED ENGINE COOLING SYSTEM CONTROL WITH FUEL ECONOMY OPTIMIZATION
5919295	6-Jul-99	H-197067	3-Feb-17	LOCOMOTIVE ADHESION ENHANCING MATERIAL MIXTURES
6006731	28-Dec-99	H-199177	18-Nov-17	LOCOMOTIVE ENGINE COOLING SYSTEM
6079375	27-Jun-00	H-203573	2-Aug-19	COOLANT JACKETED CYLINDER LINER WITH STIFFENING RIBS
6287091	11-Sep-01	GP-300239	10-May-20	TURBOCHARGER WITH NOZZLE RING COUPLING
6302647	16-Oct-01	GP-300101	10-May-20	TURBINE INLET SCROLL
6354815	12-Mar-02	GP-300241	10-May-20	TURBOCHARGER THERMAL ISOLATION CONNECTION
6364634	2-Apr-02	GP-300926	29-Sep-20	TURBOCHARGER ROTOR WITH ALIGNMENT COUPLINGS
6368077	9-Apr-02	GP-300047	10-May-20	TURBOCHARGER SHAFT DUAL PHASE SEAL
6371238	16-Apr-02	GP-300242	10-May-20	TURBOCHARGER SUPPORT
6478553	12-Nov-02	GP-300046	24-Apr-21	HIGH THRUST TURBOCHARGER ROTOR WITH BALL BEARINGS
6499298	31-Dec-02	GP-301233	21-Mar-21	LOCOMOTIVE ENGINE COOLING SYSTEM AND METHOD
6499884	31-Dec-02	GP-300238	29-Sep-20	BEARING/SEAL MEMBER/ASSEMBLY AND MOUNTING
6499969	31-Dec-02	GP-300240	10-May-20	CONICALLY JOINTED TURBOCHARGER ROTOR
6634303	21-Oct-03	GP-300923	11-Jun-22	LOCOMOTIVE WHEEL SLIP CONTROL AND METHOD
6647973	18-Nov-03	GP-301111	11-Jun-22	TWO-STAGE FILTRATION ASSEMBLY FOR A DIESEL ENGINE CRANKCASE VENTILATION SYSTEM
6694957	24-Feb-04	GP-301109	13-Sep-22	MULTI-ORIFICE NOZZLE AIR EVACUATOR ASSEMBLY FOR A VENTILATION SYSTEM OF A DIESEL ENGINE
6712035	30-Mar-04	GP-300703	26-Mar-22	DIESEL INJECTION IGNITER AND METHOD

ACTIVE U.S. PATENTS				
Grant Number	Grant Date	Invention No.	Expiration Date	Official title
6726459	27-Apr-04	GP-301231	7-Nov-22	VARIABLE INJECTION RATE HIGH PRESSURE FUEL PUMP
6745700	8-Jun-04	GP-302456	14-Jun-22	RADIAL BOGIE WITH STEERING BEAM MOUNT UNITIZED BRAKE
6752131	22-Jun-04	GP-301312	11-Jul-22	ELECTRONICALLY-CONTROLLED LATE CYCLE AIR INJECTION TO ACHIEVE SIMULTANEOUS REDUCTION OF NOX AND PARTICULATES EMISSIONS FROM A DIESEL ENGINE
6798112	28-Sep-04	GP-303283	25-Apr-23	ARMATURE GROUND LOCATING TEST PROCESS AND EQUIPMENT

ELECTRO-MOTIVE ACTIVE INVENTION FILES			
Invention No.	Open date	Title	Inventor : Last Name
GP-304208	25-Sep-03	INJECTOR KIT FOR LOWER EMISSION	XU
GP-304208	25-Sep-03	INJECTOR KIT FOR LOWER EMISSION	MAHAKUL
GP-304558	22-Dec-03	SYSTEM CONTROL AND CONFIGURATION FOR LOCOMOTIVE COMPRESSED AIR SYSTEM PNEUMATICALLY ACTUATED CONDENSATE DRAIN VALVES	KECK
GP-304558	22-Dec-03	SYSTEM CONTROL AND CONFIGURATION FOR LOCOMOTIVE COMPRESSED AIR SYSTEM PNEUMATICALLY ACTUATED CONDENSATE DRAIN VALVES	KLARIC
GP-304559	22-Dec-03	FLOW-TRAP GUIDE	BIDDINGS
GP-304651	20-Jan-04	METHOD TO EQUALIZE CURRENTS IN PARALLEL-CONNECTED DC TRACTION MOTORS	MADSEN
GP-304651	20-Jan-04	METHOD TO EQUALIZE CURRENTS IN PARALLEL-CONNECTED DC TRACTION MOTORS	CROSMAN III
GP-304835	20-Feb-04	ENGINE COOLING SYSTEM WITH MULTI-CORE AFTERCOOLERS	UZKAN
GP-306047	20-Oct-04	METHOD TO RECORD DATA FROM A REMOTE PROCESSOR	LIGESKI
GP-306047	20-Oct-04	METHOD TO RECORD DATA FROM A REMOTE PROCESSOR	CROSMAN III
GP-306048	20-Oct-04	ON-BOARD MULTIPROCESSOR LOCOMOTIVE DATA ACQUISITION METHOD	CROSMAN III
GP-306048	20-Oct-04	ON-BOARD MULTIPROCESSOR LOCOMOTIVE DATA ACQUISITION METHOD	LIGESKI
GP-306049	20-Oct-04	ADAPTIVE TORQUE ESTIMATOR FOR ASYNCHRONOUS MOTOR TRACTION APPLICATIONS	LIGESKI
GP-306049	20-Oct-04	ADAPTIVE TORQUE ESTIMATOR FOR ASYNCHRONOUS MOTOR TRACTION APPLICATIONS	CROSMAN III

Schedule B
Foreign Patents and Patent Applications

ACTIVE FOREIGN APPLICATIONS/PATENTS						
Invention No.	Country	Filing Date	Filing Number	Grant Date	Grant Number	Expiration Date
D-8512	CA	11-Aug-86	515661	22-Jan-91	1279226	22-Jan-08
	DE	27-Aug-86	86306593		3683853	27-Aug-06
	EP	27-Aug-86	86306593		258502	27-Aug-06
	FR	27-Aug-86	86306593		258502	27-Aug-06
	GB	27-Aug-86	86306593		258502	27-Aug-06
	KR	11-Sep-86	8600007647	16-Oct-89	29808	11-Sep-06
	ZA	26-Aug-86	866472		866472	26-Aug-06
D-8834	CA	23-Jan-86	500214	13-Dec-88	1246404	13-Dec-05
D-9092	CA	12-Aug-86	515755	26-Sep-89	1260524	26-Sep-06
	CH	11-Aug-86	86306239		214774	11-Aug-06
	DE	11-Aug-86	86306239		3679482	11-Aug-06
	EP	11-Aug-86	86306239		214774	11-Aug-06
D-9150	CA	12-Feb-86	501670	7-Nov-89	1262745	7-Nov-06
D-9511	CA	12-Nov-86	522699	15-May-90	1268993	15-May-07
F-1155	AU	14-Jul-88	19057		611923	14-Jul-08
	CA	26-Jul-88	572997	2-Jun-92	1302163	2-Jun-09
	DE	20-Jul-88	3824709		3824709	20-Jul-08
	GB	5-Jul-88	8815979	24-Jul-91	2208377	5-Jul-08
F-489	CA	25-Aug-87	545229	29-Jan-91	1279501	29-Jan-08
F-491	CA	17-Aug-87	544665	15-Oct-91	1290777	15-Oct-08
F-524	AU	8-Apr-88	14432		609796	8-Apr-08
	CA	18-Apr-88	564368	8-Sep-92	1307249	8-Sep-09
	DE	29-Mar-88	88302786.4		3860591	29-Mar-08
	EP	29-Mar-88	88302786.4		289140	29-Mar-08
	FR	29-Mar-88	88302786.4		289140	29-Mar-08
	GB	29-Mar-88	88302786.4		289140	29-Mar-08
	IT	29-Mar-88	88302786.4		289140	29-Mar-08
	KR	28-Apr-88	884860		43850	28-Apr-08
G-11513	AU	10-Feb-94	55015		654637	10-Feb-14
	CA	24-Jan-94	2114094		2114094	24-Jan-14
G-11531	CA	16-Dec-93	2111637	23-Mar-99	2111637	16-Dec-13
G-1954	CA	10-Feb-93	2089235	25-Feb-97	2089235	10-Feb-13
G-222	CA	26-Oct-89	2001546	8-Nov-94	2001546	26-Oct-09
G-3362	CA	15-Jan-93	2087400	19-Dec-95	2087400	15-Jan-13
G-4204	AU	11-Nov-91	87742	21-May-93	633455	11-Nov-11
	CA	12-Aug-91	2048932	17-Jan-95	2048932	12-Aug-11
	DE	6-Nov-91	91202877.6	29-Mar-95	69108523	6-Nov-11
	EP	6-Nov-91	91202877.6	29-Mar-95	488434	6-Nov-11
	FR	6-Nov-91	91202877.6	29-Mar-95	488434	6-Nov-11
	GB	6-Nov-91	91202877.6	29-Mar-95	488434	6-Nov-11
G-4322	AU	1-Jul-92	19355		638189	1-Jul-12
	CA	2-Jun-92	2070188		2070188	2-Jun-12
	DE	26-Jun-92	92201920.3		69206342	26-Jun-12

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	EP	26-Jun-92	92201920.3		522630	26-Jun-12
	FR	26-Jun-92	92201920.3		522630	26-Jun-12
	GB	26-Jun-92	92201920.3		522630	26-Jun-12
	KR	11-Jul-92	9212394		102014	11-Jul-12
G-5005	AU	24-Jun-92	18515		638897	24-Jun-12
	CA	14-Apr-92	2065963		2065963	14-Apr-12
	IN	22-Jun-92	380	22-Jun-92	180687	22-Jun-06
	MX	8-Jun-92	924001		180747	8-Jun-12
	ZA	23-Jun-92	924615		924615	23-Jun-12
G-6274	CA	31-Jan-95	2141533	13-Jun-00	2141533	31-Jan-15
G-9764	CA	9-Mar-93	2091312		2091312	9-Mar-13
GP-300046	CA	11-Feb-02	2371470			11-Feb-22
	CN	24-Apr-02	2118182.9			24-Apr-22
	DE	26-Feb-02	2004193.5			26-Feb-22
	EP	26-Feb-02	2004193.5			26-Feb-22
	FR	26-Feb-02	2004193.5			26-Feb-22
	GB	26-Feb-02	2004193.5			26-Feb-22
	MX	18-Apr-02	2002/016985			18-Apr-22
GP-300047	CA	3-Jul-01	2352021	23-Dec-03	2352021	3-Jul-21
	CH	6-Jul-01	1116392			6-Jul-21
	DE	6-Jul-01	1116392			6-Jul-21
	EP	6-Jul-01	1116392			6-Jul-21
	FR	6-Jul-01	1116392			6-Jul-21
	GB	6-Jul-01	1116392			6-Jul-21
	MX	11-Jul-01	2001/007060			11-Jul-21
GP-300101	CA	3-Jul-01	2352041			3-Jul-21
	CH	6-Jul-01	1116393.8			6-Jul-21
	DE	6-Jul-01	1116393.8			6-Jul-21
	EP	6-Jul-01	1116393.8			6-Jul-21
	FR	6-Jul-01	1116393.8			6-Jul-21
	GB	6-Jul-01	1116393.8			6-Jul-21
	MX	11-Jul-01	2001/007061			11-Jul-21
GP-300238	CA	7-Aug-01	2354817			7-Aug-21
	CH	5-Sep-01	1121296.6			5-Sep-21
	DE	5-Sep-01	1121296.6			5-Sep-21
	EP	5-Sep-01	1121296.6			5-Sep-21
	FR	5-Sep-01	1121296.6			5-Sep-21
	GB	5-Sep-01	1121296.6			5-Sep-21
	MX	20-Sep-01	2001/009499			20-Sep-21
GP-300239	CA	3-Jul-01	2352027	30-Dec-03	2352027	3-Jul-21
	CH	6-Jul-01	1116391.2			6-Jul-21
	DE	6-Jul-01	1116391.2			6-Jul-21
	EP	6-Jul-01	1116391.2			6-Jul-21
	FR	6-Jul-01	1116391.2			6-Jul-21
	GB	6-Jul-01	1116391.2			6-Jul-21
	MX	11-Jul-01	2001/007062			11-Jul-21

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Invention No.	Country	Filing Date	Filing Number	Grant Date	Grant Number	Expiration Date
GP-300240	CA	3-Jul-01	2352031			3-Jul-21
	CH	6-Jul-01	1116390.4			6-Jul-21
	DE	6-Jul-01	1116390.4			6-Jul-21
	EP	6-Jul-01	1116390.4			6-Jul-21
	FR	6-Jul-01	1116390.4			6-Jul-21
	GB	6-Jul-01	1116390.4			6-Jul-21
	MX	11-Jul-01	2001/007063			11-Jul-21
GP-300241	CA	3-Jul-01	2352029			3-Jul-21
	CH	6-Jul-01	1116389.6	6-Oct-04	1273766	6-Jul-21
	DE	6-Jul-01	1116389.6	6-Oct-04	1273766	6-Jul-21
	EP	6-Jul-01	1116389.6	6-Oct-04	1273766	6-Jul-21
	FR	6-Jul-01	1116389.6	6-Oct-04	1273766	6-Jul-21
	GB	6-Jul-01	1116389.6	6-Oct-04	1273766	6-Jul-21
	MX	11-Jul-01	2001/007064			11-Jul-21
GP-300242	CA	3-Jul-01	2352022	30-Dec-03	2352022	3-Jul-21
	CH	6-Jul-01	1116388.8			6-Jul-21
	DE	6-Jul-01	1116388.8			6-Jul-21
	EP	6-Jul-01	1116388.8			6-Jul-21
	FR	6-Jul-01	1116388.8			6-Jul-21
	GB	6-Jul-01	1116388.8			6-Jul-21
	MX	11-Jul-01	2001/007065			11-Jul-21
GP-300703	AT	21-Jan-03	3001194.4			21-Jan-23
	DE	21-Jan-03	3001194.4			21-Jan-23
	EP	21-Jan-03	3001194.4			21-Jan-23
	FR	21-Jan-03	3001194.4			21-Jan-23
	GB	21-Jan-03	3001194.4			21-Jan-23
	JP	26-Mar-03	2003-84174			26-Mar-23
GP-300922	DE	3-Jun-02	2012199.2			3-Jun-22
	EP	3-Jun-02	2012199.2			3-Jun-22
	FR	3-Jun-02	2012199.2			3-Jun-22
	GB	3-Jun-02	2012199.2			3-Jun-22
	NL	3-Jun-02	2012199.2			3-Jun-22
	SE	3-Jun-02	2012199.2			3-Jun-22
GP-300923	DE	4-Apr-03	3007824			4-Apr-23
	EP	4-Apr-03	3007824			4-Apr-23
	FR	4-Apr-03	3007824			4-Apr-23
	GB	4-Apr-03	3007824			4-Apr-23
	NL	4-Apr-03	3007824			4-Apr-23
	SE	4-Apr-03	3007824			4-Apr-23
GP-300925	DE	3-Feb-03	3002322			3-Feb-23
	EP	3-Feb-03	3002322			3-Feb-23
	FR	3-Feb-03	3002322			3-Feb-23
	GB	3-Feb-03	3002322			3-Feb-23
GP-300926	CA	7-Aug-01	2354818			7-Aug-21
	CH	5-Sep-01	1121297.4			5-Sep-21
	DE	5-Sep-01	1121297.4			5-Sep-21

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Invention No.	Country	Filing Date	Filing Number	Grant Date	Grant Number	Expiration Date
	EP	5-Sep-01	1121297.4			5-Sep-21
	FR	5-Sep-01	1121297.4			5-Sep-21
	GB	5-Sep-01	1121297.4			5-Sep-21
	MX	19-Sep-01	2001/009444			19-Sep-21
GP-301109	DE	7-Apr-03	3008105.3			7-Apr-23
	EP	7-Apr-03	3008105.3			7-Apr-23
	FR	7-Apr-03	3008105.3			7-Apr-23
	GB	7-Apr-03	3008105.3			7-Apr-23
GP-301111	DE	7-Apr-03	3008107.9			7-Apr-23
	EP	7-Apr-03	3008107.9			7-Apr-23
	FR	7-Apr-03	3008107.9			7-Apr-23
	GB	7-Apr-03	3008107.9			7-Apr-23
	MX	21-May-03	2003/004485			21-May-23
GP-301230	DE	21-Jan-03	3001192.8			21-Jan-23
	EP	21-Jan-03	3001192.8			21-Jan-23
	FR	21-Jan-03	3001192.8			21-Jan-23
	GB	21-Jan-03	3001192.8			21-Jan-23
GP-301231	AT	26-Sep-03	3021861.4			26-Sep-23
	DE	26-Sep-03	3021861.4			26-Sep-23
	EP	26-Sep-03	3021861.4			26-Sep-23
	FR	26-Sep-03	3021861.4			26-Sep-23
	GB	26-Sep-03	3021861.4			26-Sep-23
	MX	29-Oct-03	2003/009906			29-Oct-23
GP-301232	AT	7-Apr-03	3008106.1			7-Apr-23
	BR	12-May-03	PI0301558-0			12-May-23
	DE	7-Apr-03	3008106.1			7-Apr-23
	EP	7-Apr-03	3008106.1			7-Apr-23
	FR	7-Apr-03	3008106.1			7-Apr-23
	GB	7-Apr-03	3008106.1			7-Apr-23
	MX	21-May-03	2003/004484			21-May-23
GP-301312	AT	15-May-03	3010941.7			15-May-23
	DE	15-May-03	3010941.7			15-May-23
	EP	15-May-03	3010941.7			15-May-23
	FR	15-May-03	3010941.7			15-May-23
	GB	15-May-03	3010941.7			15-May-23
GP-301313	AT	13-Jun-03	3013558.6			13-Jun-23
	DE	13-Jun-03	3013558.6			13-Jun-23
	EP	13-Jun-03	3013558.6			13-Jun-23
	FR	13-Jun-03	3013558.6			13-Jun-23
	GB	13-Jun-03	3013558.6			13-Jun-23
GP-301366	BR	24-Oct-03				27-Apr-21
	DE	27-Oct-03	10296725.3			27-Apr-21
	GB	14-Nov-03				27-Apr-21
	SE	27-Oct-03	0302833-9			27-Apr-21
	WO	27-Apr-02	02/13289			27-Apr-22
GP-301406	AU	27-Oct-03	2002308513			27-Apr-22

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Invention No.	Country	Filing Date	Filing Number	Grant Date	Grant Number	Expiration Date
	DE	27-Oct-03	10296726.1			27-Apr-22
	GB	14-Nov-03	326607.9			27-Apr-22
	MX	29-Oct-03	2003/009898			27-Apr-22
	WO	27-Apr-02	02/13411			27-Apr-22
GP-301573	AT	13-Feb-03	3250893.9			13-Feb-23
	AU	14-Feb-03	2003200492			14-Feb-23
	DE	13-Feb-03	3250893.9			13-Feb-23
	EP	13-Feb-03	3250893.9			13-Feb-23
	FR	13-Feb-03	3250893.9			13-Feb-23
	GB	13-Feb-03	3250893.9			13-Feb-23
	MX	14-Feb-03	2003/001370			14-Feb-23
	AU	7-Apr-04	2004201491			7-Apr-24
GP-302308	DE	2-Mar-04	4004836.5			2-Mar-24
	EP	2-Mar-04	4004836.5			2-Mar-24
	FR	2-Mar-04	4004836.5			2-Mar-24
	GB	2-Mar-04	4004836.5			2-Mar-24
	JP	31-Mar-04	2004-104789			31-Mar-24
	CA	28-Mar-03	2424129			28-Mar-23
GP-302455	CN	16-Jun-03	03148641.X			16-Jun-23
	ZA	1-Apr-03	2003/2553	31-Dec-03	2003/2553	1-Apr-23
	CA	28-Mar-03	2423646			28-Mar-23
	CN	16-Jun-03	3148640.1			16-Jun-23
GP-302456	ZA	1-Apr-03	2003/2549	31-Dec-03	2003/2549	1-Apr-23
	AU	7-Apr-04	2004201490			7-Apr-24
	CA	11-Feb-04	2457467			11-Feb-24
	CH	2-Mar-04	4004835.7			2-Mar-24
GP-302493	DE	2-Mar-04	4004835.7			2-Mar-24
	EP	2-Mar-04	4004835.7			2-Mar-24
	FR	2-Mar-04	4004835.7			2-Mar-24
	GB	2-Mar-04	4004835.7			2-Mar-24
	AU	7-Apr-04	2004201482			7-Apr-24
	DE	1-Mar-04	4004661.7			1-Mar-24
	EP	1-Mar-04	4004661.7			1-Mar-24
	FR	1-Mar-04	4004661.7			1-Mar-24
GP-302494	GB	1-Mar-04	4004661.7			1-Mar-24
	AU	7-Apr-04	2004201493			7-Apr-24
	DE	1-Mar-04	4004662.5			1-Mar-24
	EP	1-Mar-04	4004662.5			1-Mar-24
	FR	1-Mar-04	4004662.5			1-Mar-24
	GB	1-Mar-04	4004662.5			1-Mar-24
GP-302495	AU	7-Apr-04	2004201489			7-Apr-24
	DE	1-Mar-04	4004663.3			1-Mar-24
	EP	1-Mar-04	4004663.3			1-Mar-24
	FR	1-Mar-04	4004663.3			1-Mar-24
	GB	1-Mar-04	4004663.3			1-Mar-24
	AU	22-Jul-04	2004203345			22-Jul-24
GP-302524	AU	22-Jul-04	2004203345			22-Jul-24

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Invention No.	Country	Filing Date	Filing Number	Grant Date	Grant Number	Expiration Date
	DE	26-Jul-04	4017671.1			26-Jul-24
	EP	26-Jul-04	4017671.1			26-Jul-24
	FR	26-Jul-04	4017671.1			26-Jul-24
	GB	26-Jul-04	4017671.1			26-Jul-24
GP-303049	AU	22-Jul-04	2004203343			22-Jul-24
	DE	18-Aug-04	4019566.1			18-Aug-24
	EP	18-Aug-04	4019566.1			18-Aug-24
	FR	18-Aug-04	4019566.1			18-Aug-24
	GB	18-Aug-04	4019566.1			18-Aug-24
H-168568	CA	8-Feb-95	2142078	28-Jul-98	2142078	8-Feb-15
H-171029	CA	4-Nov-94	2135108	9-Sep-97	2135108	4-Nov-14
H-187352	CA	28-Aug-95	2157091	2-May-00	2157091	28-Aug-15
H-187748	CA	18-Sep-95	2158509	31-Aug-99	2158509	18-Sep-15
	DE	27-Sep-95	19536017.6			27-Sep-15
	GB	8-Sep-95	9519804	23-Apr-97	2293640	8-Sep-15
	MX	18-Sep-95	9503988	18-Sep-95	194583	18-Sep-15
H-194245	AU	17-Apr-96	50700	17-Jul-97	680163	17-Apr-16
	CA	26-Mar-96	2172688	13-Jul-99	2172688	26-Mar-16
	DE	15-Apr-96	96200951	21-Nov-01	742353	15-Apr-16
	EP	15-Apr-96	96200951	21-Nov-01	742353	15-Apr-16
	FR	15-Apr-96	96200951	21-Nov-01	742353	15-Apr-16
	GB	15-Apr-96	96200951	21-Nov-01	742353	15-Apr-16
	KR	3-May-96	14461	20-Jan-99	190514	3-May-16
H-197067	AU	13-Jan-98	51843/98	16-Sep-99	705877	13-Jan-18
	CA	16-Jan-98	2227351	16-Sep-03	2227351	16-Jan-18
	MX	23-Jan-98	1998/000659			23-Jan-18
	ZA	16-Jan-98	980383		98/0383	16-Jan-18
H-199177	AU	29-Oct-98	89573/98	29-Oct-98	702851	29-Oct-19
	DE	20-Oct-98	98203535.4			20-Oct-18
	EP	20-Oct-98	98203535.4			20-Oct-18
	ES	20-Oct-98	98203535.4			20-Oct-18
	GB	20-Oct-98	98203535.4			20-Oct-18